

PCT/US REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only	
International Application No.	PCT/US / 08 068
18 MAR 2004	(1803.04)
PCT INTERNATIONAL APPLICATION RO/US	

Applicant's or agent's file reference (if desired) (12 characters maximum) 48619/275913

<b>Box No. I TITLE OF INVENTION: SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR MONITORING TRANSPORT CONTAINERS</b>	
<b>Box No. II APPLICANT</b> <input type="checkbox"/> This person is also inventor	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	Telephone No. Facsimile No. Applicant's registration No. with the Office
POWERS INTERNATIONAL, INC. 27 Catawba Street, Suite A Belmont, NC 28012 US	
State (that is, country) of nationality: US	State (that is, country) of residence: US
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input checked="" type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
<b>Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)</b>	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)	This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office
GIERMANSKI, James R. 508 Dogwood Lane Belmont, NC 28012 US	
State (that is, country) of nationality: US	State (that is, country) of residence: US
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental Box	
<input checked="" type="checkbox"/> Further applicants and/or (further) inventors are indicated on a continuation sheet.	
<b>Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE</b>	
The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: <input checked="" type="checkbox"/> agent <input type="checkbox"/> common representative	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)	Telephone No. Charlotte Office (704) 444-1000 Facsimile No. Charlotte Office (704) 444-1111 Agent's registration No. with the Office 42,212
WARD, Henry B., III ALSTON & BIRD LLP Bank of America Plaza 101 South Tryon Street, Suite 4000 Charlotte, NC 28280-4000 US	
<input type="checkbox"/> Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent	

**Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)**

*If none of the following sub-boxes is used, this sheet should not be included in the request.*

Name and address: <i>(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</i>  SMITH, Philippus Lodewyk Jacobus 470 Milner Street Waterkloof SOUTH AFRICA		This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below.)</i>
Applicant's registration No. with the Office		
State <i>(that is, country)</i> of nationality: ZA		
State <i>(that is, country)</i> of residence: ZA		
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> The United States of America only		
the States indicated in the Supplemental Box		
Name and address: <i>(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</i>  VAN ROOYEN, Vincent Rigardo 168 Ruimte Road Wierda Park Centurion SOUTH AFRICA		This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below.)</i>
Applicant's registration No. with the Office		
State <i>(that is, country)</i> of nationality: ZA		
State <i>(that is, country)</i> of residence: ZA		
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input checked="" type="checkbox"/> The United States of America only		
the States indicated in the Supplemental Box		
Name and address: <i>(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</i>  		This person is: <input type="checkbox"/> applicant only <input type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below.)</i>
Applicant's registration No. with the Office		
State <i>(that is, country)</i> of nationality:		
State <i>(that is, country)</i> of residence:		
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> The United States of America only		
the States indicated in the Supplemental Box		
Name and address: <i>(Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)</i>  		This person is: <input type="checkbox"/> applicant only <input type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only <i>(If this check-box is marked, do not fill in below.)</i>
Applicant's registration No. with the Office		
State <i>(that is, country)</i> of nationality:		
State <i>(that is, country)</i> of residence:		
This person is applicant for the purposes of: <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of America <input type="checkbox"/> The United States of America only		
the States indicated in the Supplemental Box		
<input type="checkbox"/> Further applicants and/or (further) inventors are indicated on another continuation sheet.		

CONTINUATION OF BOX NO. IV

The following additional attorneys or agents, in their capacity as representatives of, ALSTON & BIRD LLP, are also appointed:

ANDERSON, J. Scott  
ARROYO, Blas P.  
ARZU, Quetia  
ATKINSON, William M.  
BALTS, Timothy  
BARNHARDT, John J., III  
BATES, Andrea E.  
BELL, Paul B.  
BLACK, C. Allen  
BRADLEY, Kirk T.  
BRIENT, Scott E.  
BROYLES, Keith E.  
CAGLE, Ryan  
CARLIN, Gregory  
CLAUSON, Heather L.  
CONNOR, Michael S.  
COOPER, Jason P.  
COOPER, Jeffrey  
CORNETT, David Anthony  
COULTER, Kathryn L.  
CUNNINGHAM, Michelle  
CUNNINGHAM, Robert B.  
EDWARDS, James C.  
ELDERKIN, Charles B.  
ELLSWORTH, Brian  
ELSEVIER, Patrick  
ERGENZINGER, Edward  
FRY, John P.  
GALLO, Nicholas F.  
GEGG, Christopher  
GOSNELL, Guy R.  
GREGG, Heather L.  
GRONHOLM, Gregory  
HAYNES, John D.  
HENRY, Leslie T.  
HERNDON, J. Perry  
HIGGINS, John P.  
HILL, Donald M., Jr.  
HUMPHREY, Christopher M.  
JONES, Larry C.  
JURGOVAN, Jon M.  
KAHLE, Neill R., Jr.  
KIRK, Trent A.

KOSTER, Karl H.  
KRON, Eric J.  
LAWSON, Lance A.  
LEAK, Frank W., Jr.  
LINKER, Raymond O., Jr.  
LIPSCOMB, Ernest B., III  
LUEDERS, Spencer G.  
LUPO, Dickson M.  
LYN, Kevin R.  
McCLELLAND, Todd S.  
McCOY, Michael D.  
McDERMOTT, Richard M.  
MCNIFF, Stephen  
MEUNIER, Andrew T.  
MORSE, Karen M.  
O'BRIEN, Kevin A.  
PARKER, Thomas  
PEDIGO, Paul F.  
PENDLETON, Melissa B.  
PICHÉ, Jason  
PLEUNE, Scott B.  
PRINCE, Edward M.  
RANSOM, W. Kevin  
ROBERSON, Keith  
ROSE, Bruce J.  
SARAVITZ, David  
SCOTT, Walter  
SIDBURY, Benjamin F.  
SPENCE, Andrew  
SPRUILL, W. Murray  
STRAIGHT, Robert E.  
STRUBY, Meredith W.  
SULLIVAN, John L., Jr.  
TAULBEE, George M.  
TESKE, David  
THORNE, Leigh W.  
URBANAWIZ, Matthew  
WARD, III, Henry B.  
WASLEFF, John A.  
WILLIAMSON, Kelly J.  
WILSON, J. Mark  
WINBORNE, George O.  
WITHERSPOON, James A.  
YOUNG, Jeffrey  
YOUNG, J. Scott

All of the firm and address identified in Box No. IV.

**Box No. V DESIGNATIONS**

The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regions and national patents.

However,

- ☐ DE Germany is not designated for any kind of national protection
- ☐ KR Republic of Korea is not designated for any kind of national protection
- ☐ RU Russian Federation is not designated for any kind of national protection

(The check-boxes above may be used to exclude (irrevocably) the designations concerned in order to avoid the ceasing of the effect, under the national law, of an earlier national application from which priority is claimed. See the Notes to Box No. V as to the consequences of such national law provisions in these and certain other States.)

**Box No. VI PRIORITY CLAIM**

The priority of the following earlier application(s) is hereby claimed:

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1) 20 March 2003 (20.03.03)	2003/2250	ZA		
item (2)				
item (3)				

☐ Further priority claims are indicated in the Supplemental Box.

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:

☐ all items ☐ item (1) ☐ item (2) ☐ item (3) ☐ other, see Supplemental Box

\* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):

**Box No. VII INTERNATIONAL SEARCHING AUTHORITY**

Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

ISA /EP

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year)                      Number                      Country (or regional Office)

**Box No. VIII DECLARATIONS**

The following declarations are contained in Boxes Nos. VIII(i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):

		Number of declarations
<input type="checkbox"/> Box No. VIII(i)	Declaration as to the identity of the inventor	:
<input type="checkbox"/> Box No. VIII(ii)	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	:
<input type="checkbox"/> Box No. VIII(iii)	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	:
<input type="checkbox"/> Box No. VIII(iv)	Declaration of inventorship (only for the purposes of the designation of the United States of America)	:
<input type="checkbox"/> Box No. VIII(v)	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	:

Box No. IX

## CHECK LIST; LANGUAGE FILING

This international application contains:

(a) in paper form, the following number of sheets:

request (including declaration sheets) : 5

description (excluding sequence listings and/or tables related thereto) : 16

claims : 7

abstract : 1

drawings : 10

Sub-total number of sheets : 39

sequence listings : 0

tables related thereto : 0

(for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c) below):

Total number of sheets : 39

(b) ☐ only in computer readable form (Section 801(a)(i))(i) ☐ sequence listings(ii) ☐ tables related thereto(c) ☐ also in computer readable form (Section 801(a)(ii))(i) ☐ sequence listings(ii) ☐ tables related thereto

Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the

☐ sequence listings.....☐ tables related thereto.....

(additional copies to be indicated under item 9(ii) and/or 10(ii), in right column)

This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):

- |     |                                     |   |     |
|-----|-------------------------------------|---|-----|
| 1.  | <input checked="" type="checkbox"/> | fee calculation sheet   | : 1 |
| 2.  | <input type="checkbox"/>            | original separate power of attorney   | :   |
| 3.  | <input type="checkbox"/>            | original general power of attorney  | :   |
| 4.  | <input type="checkbox"/>            | copy of general power of attorney; reference number, if any:.....   | :   |
| 5.  | <input type="checkbox"/>            | statement explaining lack of signature  | :   |
| 6.  | <input type="checkbox"/>            | priority document(s) identified in Box No. VI as item(s):.....  | :   |
| 7.  | <input type="checkbox"/>            | translation of international application into (language):.....  | :   |
| 8.  | <input type="checkbox"/>            | separate indications concerning deposited microorganism or other biological material  | :   |
| 9.  | <input type="checkbox"/>            | sequence listings in computer readable form (indicate type and number of carriers)  | :   |
|     | (i)                                 | <input type="checkbox"/> copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application)   | :   |
|     | (ii)                                | <input type="checkbox"/> (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter               | :   |
|     | (iii)                               | <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listings mentioned in left column  | :   |
| 10. | <input type="checkbox"/>            | tables in computer readable form related to sequence listings (indicate type and number of carriers)  | :   |
|     | (i)                                 | <input type="checkbox"/> copy submitted for the purposes of international search under Section 802(b-quarter) only (and not as part of the international application)   | :   |
|     | (ii)                                | <input type="checkbox"/> (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quarter) | :   |
|     | (iii)                               | <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column   | :   |
| 11. | <input checked="" type="checkbox"/> | other (specify): <u>Transmittal Letter and Postcard</u>   | : 2 |

Figure of the drawings which should accompany the abstract:

Language of filing of the international application: English

Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE

Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).

  
 Henry B. Ward, III  
 Attorney for Applicant

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1. Date of actual receipt of the purported international application:	DT02 Rec'd PCT/PTO 1 8 MAR 2004 (18.03.04)	2. Drawings:  <input type="checkbox"/> received:  <input type="checkbox"/> not received:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:		
4. Date of timely receipt of the required corrections under PCT Article 11(2):		
5. International Searching Authority (if two or more are competent): ISA/EP	6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid	

For International Bureau use only

Date of receipt of the record copy by the International Bureau:

PCT/US04/08068

PCT

# FEE CALCULATION SHEET

Annex to the Request

For receiving Office use only

International Application No. **PCT/US 04/08068**Applicant's or agent's  
file reference 48619/27591318 MAR 2004 (18.03.04)  
Date stamp of the receiving OfficeApplicant **POWERS INTERNATIONAL, INC.****CALCULATION OF PRESCRIBED FEES**

1. TRANSMITTAL FEE ..... | USD 300 T

2. SEARCH FEE ..... | 1,818 S

International search to be carried out by ISA/EP

(If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.)

3. INTERNATIONAL FILING FEE

Where items (b) and/or (c) of Box No. IX apply, enter Sub-total number of sheets

Where items (b) and (c) of Box No. IX do not apply, enter Total number of sheets ) 39

first 30 sheets ..... | 1,035 i1

$$\frac{9}{\text{number of sheets in excess of 30}} \times \frac{11}{\text{fee per sheet}} = \frac{99}{\text{fee per sheet}} \text{ i2}$$

additional component (only if sequence listings and/or tables related thereto are filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii):

$$400 \times \frac{11}{\text{fee per sheet}} = \text{ } \text{ i3}$$

Add amounts entered at i1, i2 and i3 and enter total at I .. | 1,134 I

(Applicants from certain States are entitled to a reduction of 75% of the international fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the international filing fee.)

4. FEE FOR PRIORITY DOCUMENT (if applicable) ..... | 0 P

5. TOTAL FEES PAYABLE ..... | 3,252  
Add amounts entered at T, S, I and P, and enter total in the TOTAL box TOTAL**MODE OF PAYMENT**

- ☐ Authorization to charge deposit account (see below) ☐ postal money order ☐ cash ☐ coupons
- ☒ cheque ☐ bank draft ☐ revenue stamps ☐ other (specify):

**AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT**

(This mode of payment may not be available at all receiving Offices)

- ☐ Authorization to charge the total fees indicated above.
- ☒ Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.
- ☐ Authorization to charge the fee for priority document.

Receiving Office: USDeposit Account No. 16-0605Date: 18 March 2004Name: Henry B. Ward, III

Signature

